

Chromosome specimen making 64 Samples Metaphase Harvester

Chromosome specimen maker 64-Samples Metaphase Harvester **HANABI-PIII plus** does the processing of cell harvesting from the cultured cell automatically, simplifying a complicated process and producing uniform cells. The main operation of Metaphase Harvester is the constant temperature centrifugal separator structure, a hypotonic treatment using pre-heated hypotonic solution that enable fixation processing with cooled fixative solution. The centrifugal separator section is located at the center with 8 sets of centrifugal sections, 8 tubes per set, capable of producing 64 specimens at one time by injecting solutions and exhaust solutions. By using the **HANABI-PIII plus**, a large amount of stable chromosome specimens can be produced enabling cell harvesting.

HANABI-PIII plus is a succession machine to HANABI-PIII.

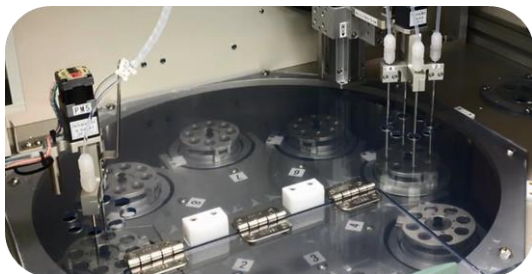
HANABI-PIII plus has Interleave mode as a new function, and the mode can perform injection and aspiration process at the same time and cut down up to 34 minutes of processing time (15% of total processing time).

It also can display remaining time of total processing time and hypotonic treatment time.

More flexible protocol can be set because this machine can be added the various options.



HANABI-PIII plus
Metaphase Harvester



Manufacturer and Distributor

ADSTEC

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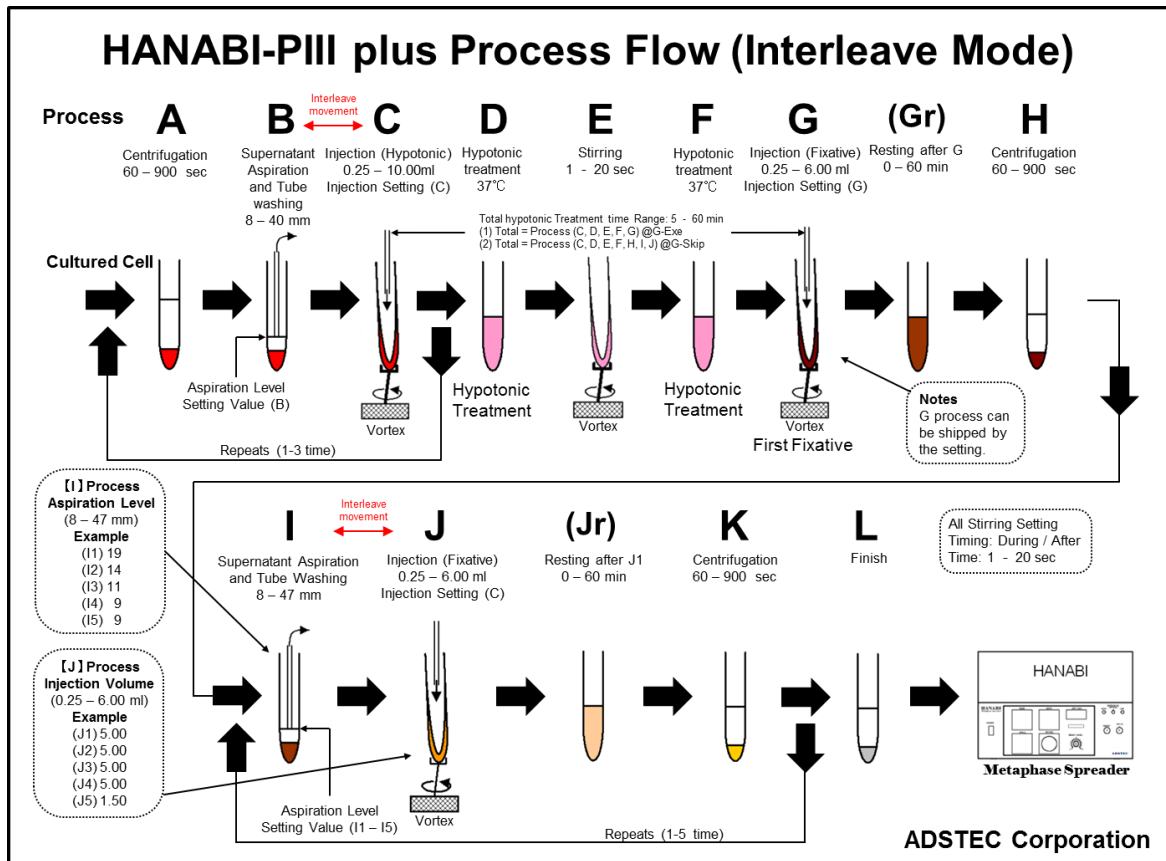
HANABI-PIII plus Specifications

The main specifications are as follows.

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No.	Items	Specifications	Remarks
1	Diameter of the tube holder	16.8mm	Centrifugal tube 15ml, PP (Polypropylene)
2	Culture cell suspensions	10ml (Max)	Typical 5ml
3	Number of samples	64samples	Combination: 4, 8, 12, 16, 20, 24, 28, 32, 36, 40, 44, 48, 52, 56, 60, 64
4	Total processing time	2.5hrs (Approx.)	64 samples, 30min hypotonic * Interleave mode can decrease 20 minutes
5	Centrifuge G	310G (Approx.)	1000rpm (r = 28cm)
6	Injection pumps	4	Hypotonicx2 and Fixativex2
7	Aspiration lines	4	
8	Hypotonic treatment temperature	37°C	Preheating, Select ON/OFF
9	Centrifuge section temperature	37°C	Air Bath, Select ON/OFF
10	Operating environment	15-30°C, 20-60%RH	Non-condensing
11	Storage temperature	0-40°C, 0-95%RH	Non-condensing, non-icing
12	Atmospheric Pressure	800 - 1114hPa	2000 meters or lower
13	Pollution Degree	2	non-conductive levels
14	Power Input Voltage	100, 120, 230VAC (+/-10%)	Voltage and 50/60Hz are option of the order.
15	Power consumption	1200W	Without Filter Unit (270W)
16	Overvoltage Category	II	
17	Externals Dimensions (US model)	1005Wx1800Hx730D	Without reagent bottles shelf and door hinges
	Externals Dimensions (EU model)	1005Wx2200Hx730D	
18	Weight (US model)	430Kg (Approx.)	Without attachments
	Weight (EU model)	460Kg (Approx.)	
19	Safety Standard	CE marking	EN61010-1
20	EMC		EN61000-4, EN61326

Process flow



Please use HANABI-PVI for the spreading of the chromosomes.